रजिस्ट्री सं० डी० एल—33001/93 REGISTERED NO. DL—33001/93

भारत का राजपत्र
The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 2] नई दिल्ली, शनिवार, जनवरी 9, 1993 (पौष 19, 1914)
No. 2] NEW DELHI, SATURDAY, JANUARY 9, 1993 (PAUSA 19, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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Calcutta, the 9th January 1993

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पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 9 जनवरी 1993

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट,
तीसरा तल, लोअर परेल, (पश्चिम),
बम्बई-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दीव एवं दादरा और नागर हवेली ।

तार पता—"पेटोफिस"

पेटेंट कार्यालय शाखा,
एकक सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—"पेटेंटोफिक"

पेटेंट कार्यालय शाखा,
61, बालाजाह रोड,
मद्रास-600002 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिकाय तथा अमिनिदिवि द्वीप ।

तार पता—"पेटोफिस"

पेटेंट कार्यालय (प्रधान कार्यालय)
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय,
भवन, 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700020 ।

भारत का अवशेष क्षेत्र

तार पता—"पेटेंट्स"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपर्युक्त कार्यालय में ही प्राप्त किए जाएंगे।

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ALTERATION OF DATE UNDER SECTION-16

171800 (607/Del/88) Ante dated to May 20, 1986.

171810 (6/Cal/91) Ante dated to February 17, 1988.

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स्वीकृत सम्पूर्ण विनिर्देश

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1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए ।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी । प्रत्येक विनिर्देश का मूल्य 2/- रु. है । (अतिरिक्त डाक खर्च) । मुद्रित विनिर्देश की आपूर्ति हेतु मांग-पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए ।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है । विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 175 G. 171781

Int. Cl⁴. : F 02 G 1/04.

A STERLING ENGINE.

Applicant : Hari Krishan, 9/270, Dakshin Puri Extension, New Delhi-110 062, India, an Indian national.

Inventor : Hari Krishan.

Application for Patent No. : 31/DEL/87 filed on 16-1-1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

CLAIMS 8

A sterling engine comprising a cylinder (B), a working fluid such as air within said cylinder and adapted to be heated by heat applied to one side of outer surface of the said cylinder characterised in that at least two diametrically opposite openings are provided in the cylinder near one end thereof, an expandable member such as bellows secured to each of said openings in communication with the interior of the cylinder, said expandable members being adapted to be expanded and contracted alternately, the expansion of said members being dependent on the temperature of the said working fluid, a rotor being provided within the cylinder and is secured to a shaft disposed in the cylinder, end plates of a non-magnetic material fixed to the ends of said cylinder having means for supporting said shaft rotatably.

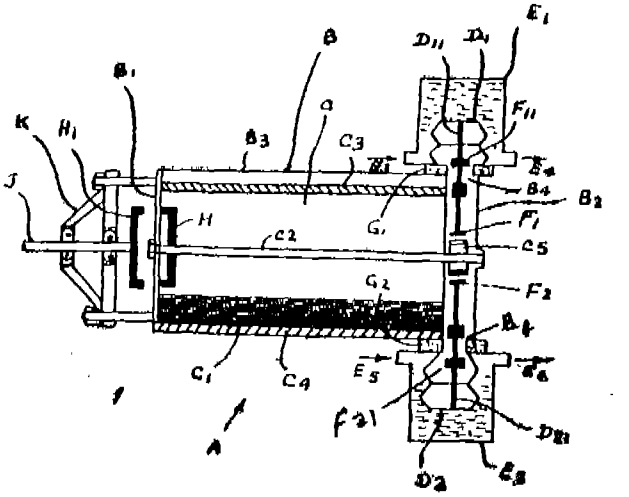


Fig 1

(Compl. Specn. 12 Pages ; Drgs. 2 Sheets).

Ind. Cl. : 155 F_1 171782

Int. Cl.⁴ : A62C 3/08.

A PROCESS FOR THE PREPARATION OF ABLATIVE FIRE-RETARDANT POLYMER COMPOSITS FROM CASHEWNUT SHELL LIQUID.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : ALATHUR DAMODARAN DAMODARAN, CHENNAKKATTU KRISHNA SADASIVAN PILLAI, SURES CHANDRA BERA, VADAKKETHONIPPURATHU SIVANKUTTY NAIR PRASAD, JANARDHANAN NAIR DEVAKIAMMA SUDHA.

Application for Patent No. 314/DEL/87 filed on 13 April, 1987 .

Complete Specification left on 13 July, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

CLAIMS 3

A process for the preparation of ablative/fire-retardam polymers composites from cashewnut shell liquid which comprises brominating phosphorylated cashewnut shell liquid prepolymer in the presence of carbon tetra chloride at a temperature in the range of 0—5°C, removing the solvent by Vacuum distillation, reinforcing the resultant brominated ablative prepolymer with reinforcing material such herein described and hot pressing the resultant polymer composite at a temperature of 150°C for 30 minutes.

(Provisional Specification 2 Pages).

(Complete Specification 8 Pages).

Ind. Cl. : 55 F. 171783

Int. Cl.[4] : C12N 11/02.

A METHOD OF MAKING A REGENERABLE SUPPORT MATRIX, GENERALLY USEFUL FOR IMMOBIZING BIOLOGICALLY ACTIVE.

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 25 EAST ALGONQUIN ROAD, DES PLAINES, ILLINOIS 60017-5017, UNITED STATES OF AMERICA.

Inventors : CHRIS DAVID LAPINS & YOSHIHISA TSUDA.

Application for Patent No. 375/Del/87 filed on 29 Apr. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110 005.

6 Claims

A method of making a regenerable support matrix generally useful for immobilization of biologically active materials comprising coating a core support such as herein described with a cellulose ester, removing by hydrolysis at least about 80% of the ester groups to provide free hydroxyl groups, converting said hydroxyl groups to dialkylaminoalkyl ether moieties by reaction with a dialkylaminoalkyl halide, said dialkylaminoalkyl moiety having the formula $R_aR_bN(CH_2)p$, where R_a, R_b, are groups of the formula CnH_{2n+1}, with n being an integer from 1 to 20, and p being an integer from 2 to 10, and recovering the resulting support matrix.

Compl. Specn. 16 pages.

Ind. Cl. : 195 F XXIX (3) 171784

Int. Cl.[4] : B 64 B 1/40, 1/56.

A ONE PIECE VALVE FOR A CLOSED ENCLOSURE AND AN INFLATABLE BALLOON WHENEVER INCORPORATING SAID VALVE.

Applicant : MONNERET JOUETS, A FRENCH COMPANY, OF 870 RUE BLAISE PASCAL, LONS LE SAUNIER, JURA FRANCE.

Inventor : JACQUES VERLIER.

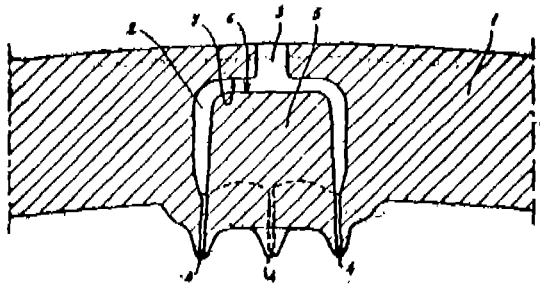
Application for Patent No. 584/Del/87 filed on 10-7-87.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A one piece valve for a closed enclosure, said enclosure comprising a continuous molded wall (1) having an opening (3) thereon, said valve being located in said opening (3) and comprising a cavity (2) located inside said enclosure and communicating with the outside of said enclosure by means of said hole (3), a valve (5) element located in the central part of said cavity (2) with the base of said valve element (5) being integral with the wall of said (1) enclosure, so that when pressure is applied internally of said enclosure, the upper front wall (6) of said valve element (5) is caused to seal against the upper inside (7) wall of said cavity (2), thereby preventing deflation of said enclosure.

Fig. 1



Compl. Specn. 10 pages Drgs. 2 sheets

Ind. Cl. : 84 C 1 XXXII (2). 171785

Int. Cl. : C 10 L 9/02, 9/12.

PROCESS FOR THE PRODUCTION OF UPGRADED COAL HAVING IMPROVED CUMBUSTION AND COKING PROPERTIES.

Applicant : INTERNATIONAL DEVELOPMENT RESEARCH CENTRE, A CANADIAN COMPANY, OF P.O. BOX 8500, OTTAWA, ONTARIO, CANADA, K 1 G 3H9.

Inventors : BISWANATH NANDI, JOHN ANTHONY MACPHEE, LYNN ANTHONY CIAVAGLIA, ESTEBAN CHORNET AND ROGER ARSENAULT.

Application for Patent No. 592/Del/87 filed on 14-7-87.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

14 Claims

A process for the production of upgraded coal having improved combustion and coking properties from low rank, highly oxidised coals which comprises :

(a) comminuting an oxidised coal to a particle size of at least 60 mesh (about 250 u) or less;

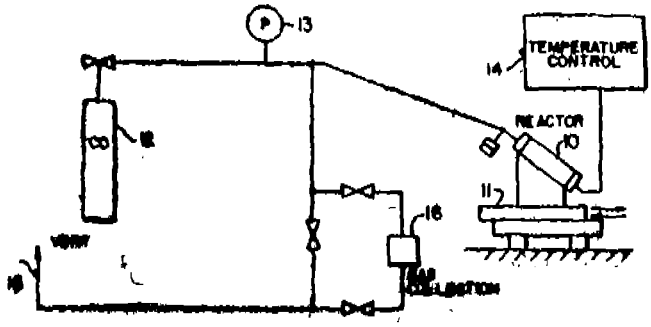
(b) feeding the comminuted coal to a reactor (10);

(c) contacting the coal in said reactor, in the presence of water or steam in a minimum ratio to the coal of 0.2 :1 by weight, with carbon monoxide or a source of carbon monoxide at a pressure (at 25°C) of from 1400 to 1800 psi (9.6 to 12.4 MPa).

(d) heating the contents of the reactor to a temperature in the range of from 340°C to 425°C for a period of time of from 45 to 55 minutes;

(e) cooling the contents of the reactor; and

(f) recovering the upgraded coal.



Compl. Specn. 17 pages Drgs. 2 sheets.

Ind. Cl. : 50 E 2 VII (1). 171786

Int. Cl.[4] : F 25 B 31/00, F 04 B 39/02.

A REFRIGERANT COMPRESSOR.

Applicant : SANDEN CORPORATION, A JAPANESE COMPANY, OF 20 KOTOBUKI-CHO, ISESAKI-SHI, GUNMA, 372 JAPAN.

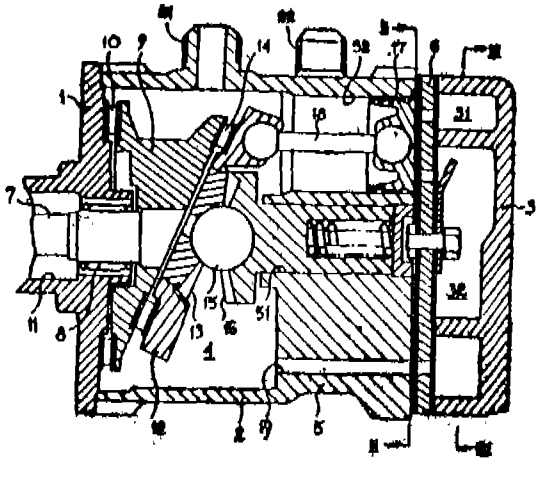
Inventor : KEIICHI SHIMIZU.

Application for Patent No. 679/Del/87 filed on 3-8-1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A refrigerant compressor comprising a compressor housing (2) having a cylinder block (5) provided with a plurality of cylinders (52) and a crank chamber (4) adjacent said cylinder block, a front end plate (1) to cover one end opening of said housing, a rear end plate (3) to cover one end portion of said cylinder block, a drive shaft (7) rotatably supported on said front end Plate (1) and having a wedge shaped rotor (9), a plurality of pistons (17) slidably fitted within each of said plurality of cylinders and reciprocated by nutating mortion of a wobble plate (12) which is coupled to the said piston, and is located proximate to an inlet port (22) which communicates directly with said crank chamber, said rear end plate (3) forming a suction chamber (31) and a discharge chamber, (32) said discharge chamber being located on the centre portion of said rear end plate, and a plurality of communication holes (19) located equiangularly in said cylinder (5) block so as to communicate said crank chamber with said suction chamber.



Compl. Specn. 9 pages. Drgs. 3 sheets.

Ind. Cl. : 32 B 1X(1). 171787

Int. Cl. : B 01 J 21/04.

METHOD FOR SELECTIVELY HYDROGENATING A DIOLEFINIC HYDROCARBON TO A MONO-OLEFINIC HYDROCARBON.

Inventors : MARK J. GATTUSO, DANIEL L. ELLIG.

Application for Patent No. 787/Del/87 filed on 7th Sep., 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A method for selectively hydrogenating a diolefinic hydrocarbon to a mono-olefinic hydrocarbon which comprises contacting said diolefinic hydrocarbon and hydrogen under the hydrogenation condition with a catalyst comprising an alumina support material containing from 0.05 to 1.5 wt.% sulfur and from 1.0 to 25 wt.% nickel, said alumina support material having a total pore volume greater then 1.4 but less than 3 cc/g, a surface area greater than 150 m^2/g, with less than 25 percent of the total pore volume being provided by pores having pore diameters of less than 150 angstroms and with over 60 percent of the pore volume being provided by pores diameters greater than 600 angstroms.

Compl. Specn. 18 pages Drgs. 2 sheets.

Ind. Cl. : 128 K XIX (2). 171788

Int. Cl.[4] : A 61 M 27/00.

TWO-PIECE COUPLING DEVICE FOR USE WITH AN APPARATUS FOR CARRYING OUT PERITONEAL DIALYSIS.

Applicant : CONTEMPO PRODUCTS, P. HERRLI, OF ALPENSTRASSE 15A, 2502 BIEL, CONTON OF BERNE, SWITZERLAND.

Inventor : PETER HERRLI.

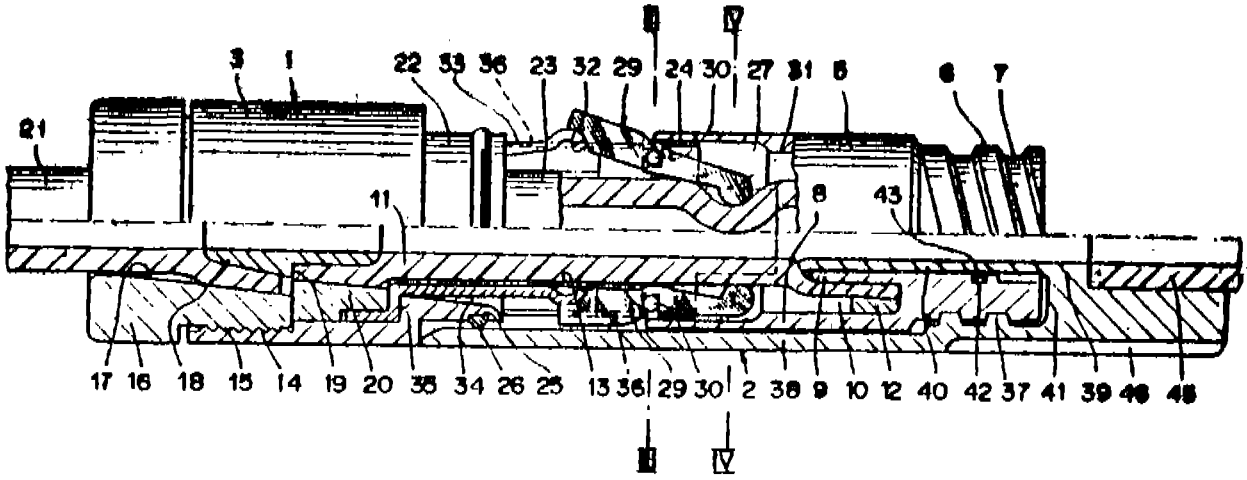
Application for Patent No. 841/Del/87 filed on 23rd Sept. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A two-piece coupling device for use with an apparatus for carrying out peritoneal dialysis having a first (1) and a second (2) coupling part with one flow duct each, said two coupling parts (1, 2) beingdetachably connected to each other, a tube connected in the outer end region of each of said coupling parts, wherein said first coupling part comprises a sleeve (3) having a longitudinal central passage (13) and an axially projecting extension (4) defining at least one stepped up portion (4), a jacket (5) at least partially surrounding said extension; a first detachable fastening means (14) located on said first coupling part (1), a resilient hollow body (11) connected at one end thereof to said jacket (5), at least one automatic blocking means (29) extending from said stepped portion for interrupting flow of media through said hollow body (11) when said first coupling part (1) is detached from said second coupl-

ing part (2), said second coupling part having a second detachable fastening means (15) co-operating with the first fastening means (14) and a hollow projection extending towards said first coupling part, said projection surrounding the entire extension (4) of said sleeve (3) and a part of said jacket (5).



Compl. Specn 13 pages. Drgs. 5 sheets.

Ind. Cl. : 95 H. 171789

Int. Cl.[4] : B 25 B 27/00.

ADJUSTABLE LOCKING HAND TOOL.

Applicant : PETERSEN MANUFACTURING CO., INC., A CORPORATION ORGAN*ISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEBRASKA, UNITED STATES OF AMERICA, OF DEWITT, NEBRASKA 68341, U.S.A.

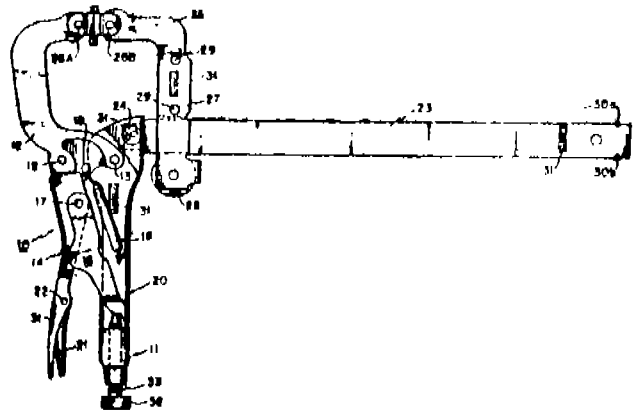
Inventor : BURRELL THADE US BURNEY.

Application for Patent No. 1143/DEL/87 filed on 29 Dec 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

14 Claims

An adjustable locking hand tool for infinitesimal adjustment having an adjustable jaw (12) and a corresponding oppositely located movable adjustable jaw (25) having a sliding end, a fixed handle (11) having said adjustable jaw (12) mounted thereon, a movable handle (14) being pivotally mounted therein on said adjustable jaw (12), a level locking means (16) therebetween said fixed handle (11) and said movable handle (14) establishing and maintaining a toggle relationship between said adjustable jaw and movable jaw in a closed position, an extension bar (23) being mounted at a fixed angle to said fixed handle (11), a means (27) for supporting and moving said movable jaw along said extension bar (23), said supporting and moving means (27) comprising a channeled support holding said sliding end of said movable jaw (12) to one face of said extension bar (23) and holding a spacer member (28) to the opposite face of said extension bar (23), said extension for having smooth faces, said sliding end of said movable jaw (25) having an arcuate protuberance (42) for allowing the sliding end to alternate from a locked position to an unlocked position as said movable jaw (25) slides or is slided to a point along said extension bar (23), and wherein said arcuate protuberance (42) is provided at the outer corner of said sliding end of said movable jaw (25), whereby the combination of said arcuate protuberance (42), said spaced (28) and the distance between them provides the friction to cause said movable jaw (25) to lock in and along said extension bar (23).



(Compl. specn. 14 pages Drg. 1 sheet)

Ind. Cl. : 68 A & 70 B. 171790

Int. Cl.[4] : C 25 C 5/00 & H 01 M 4/80.

AN IMPROVED PROCESS FOR THE PREPARATION OF ACTIVATED POROUS IRON PLATE USEFUL AS AN ELECTRODE FOR NICKEL IRON BATTERY.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PADIKKASU PERIASAMY, KAILTHUVALAPPIL INNIRY VASU & CHINNASAMY CHAKKARAVARTHY.

Application for Patent No. 1151/DEL/87 filed on 31 Dec. 1987.

Complete specification left on 14 Mar. 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

An improved process for the preparation of activated porous iron plate useful as an electrode for nickel-iron battery comprising spreading uniformly dry iron powder of the size such as here in described on both sides of a nickel plated mild steel sieve placed in a graphite die having cavity of suitable dimention, heating the graphite die together with the nickel plated mild steel sieve having the iron powder, spread over it in furnace at a temperature in the range of 850°—875°C in an hydrogen atmosphere for a period of 20—60 minutes, cooling the said die in hydrogen atmosphere to room temperature, then removing the resultant porous iron plate from the die & activating the plates by dipping them in a 1—5% solution of copper sulphate for 5—10 seconds, drying then dipping in 1—5% solution of mercuric chloride for 5—10 seconds, drying and again dipping in 1—5% solution of sodium sulphide for a period of 5—10 seconds washing the plate with water after dipping in each solution before drying, finally drying the resultant porous iron plate by known methods.

(Provisional specification 4 pages).

(Compl. specn. 7 pages).

Ind. Cl. : 40 B. 171791

Int. Cl.[4] : B 01 J 23/04 & 23/10.

CATALYST COMPOSITION FOR USE IN FLUID-BED OXYCHLORINATION OF ETHYLENE TO EDC.

Applicant : THE B. F. GOODRICH COMPANY, A NEW YORK CORPORATION, OF 3925 EMBASSY PARKWAY, AKRON, OHIO 44313, U. S. A.

Inventors : JAMAL SHAHAD EDEN & JOSEPH ALLEN COWFER.

Application for Patent No. 752/DEL/87 filed on 25 Aug. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A catalyst cmoposition for use in fluid bed oxychlorination of ethylene comprising a copper salt in the range of from 4% to 17% by weight, an alkali metal salt(s) in the range of from 0.25% to 2.3% by weight, a rare earth metal salt(s) in the range of from 0.2% to 15% by weight, all weight percents based upon the total weight of said catalyst composition, wherein said metal salts are codeposited in any known manner on a fluidizable high surface area alumina support material and wherein said weight ratio of said rare earth metal salt(s) to said alkali metal salt(s) is at least 0.8 : 1.

(Compl. specn. 37 pages Drg. 1 sheet)

Ind. Cl. : 32 E. 171792

Int. Cl.[4] : C08F 110/00, 110/02, 110/06, 110/08 & 110/10.

A POLYOLIFIN COMPOSITION HAVING IMPROVED MELT-STABILITY AND COLOUR STABILITY.

Applicant : UNIROYAL CHEMICAL COMPANY, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW JERSEY, ONE OF THE UNITED STATES OF AMERICA, LOCATED AT WORLD HEADQUARTERS, MIDDLEBURY, CONNECTICUT 06749 U.S.A.

Inventor : THOMAS MAX CHUCTA.

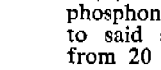
Application for Patent No. 1063/Del/87 filed on 11 December 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A polyolefin composition having improved melt stability and colour stability which comprises polyolefin of the kind such as herein described and an antioxidant composition, characterised in that said antioxidant composition consists of

from 0.01 to 5.0 parts by weight of said polyolefin (a) an aralkyl-substituted diphenylamine having the general formula



wherein Ar and Ar' each is an aryl or phenyl radical, at least one of said radicals being substituted with and aralkyl radical; and

(b) at least one sterically hindered phosphite or hindered phosphonite, the ratio of said aralkyl-substiuted dephenylamine to said sterically hindered phosphite or phosphonite being from 20 : 1 to 1 : 20.

Compl. Specn. 22 pages. Drg 2 sheets.

Ind. Cl. : 90 J. 171793

Int. Cl.[4] : C03B 18/00.

APPARATUS FOR SHAPING HEAT SOFTENABLE SHEET MATERIAL, FOR EXAMPLE, GLASS.

Applicant : PPG INDUSTRIES, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA, OF ONE PPG PLACE, PITTSBURGH-22, STATE OF PENNSYLVANIA 15272, UNITED STATES OF AMERICA.

Inventor : ROBERT GEORGE FRANK.

Application for Patent No. 1105/Del/87 filed on 21 December 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

An apparatus for shaping heat-softened sheet material, for example, glass which comprises :

means (20) for heating said sheet to its heat-softened temperature, a shaping station (24) located adjacent to said heating means for shaping said heat-softened glass sheet and a cooling station (22) located in series with respect to said heating means and said shaping station for cooling said shaped sheet;

means (26) for transferring said heat-softened sheet from said heating means to the shaping station, said transferring means connecting said heating means and said shaping station;

said shaping station comprising an upper vacuum mold and a lower mold located within said shaping station in vertical elevation with said upper mold;

means for pressing said sheet between said upper and lower molds;

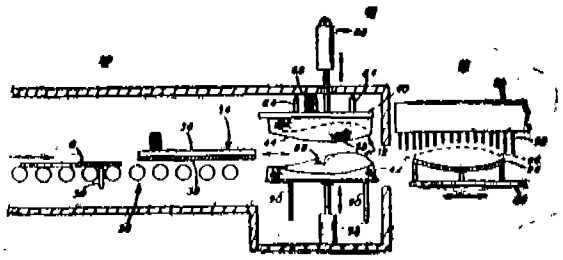
said pressing means being connected to said upper mold characterised by a support ring having a sheet supporting surface with an elevational contour corresponding to the contour of said shaped sheet slightly inboard of said sheet perimeter immediately after shaping;

said support ring being located between said shaping station and said cooling station;

means connected to said ring which causing said ring to be at a first position relative to said upper mold so as to be beneath said upper mold (32) or at a second position relative to said upper mold so as to be horizontally spaced from said upper mold;

a further transfer means (34) connected to said upper mold for transferring said sheet onto said ring when said ring is in

first position, said second position of said ring relate to said upper mold being at said cooling station where said shaped sheet is cooled, said upper vacuum mold having a female shaping surface having a generally concave downward elevational configuration corresponding to the desired configuration of said sheet and said lower mold having a male shaping surface complementing said female shaping surface of said upper mold.



Compl. Specn. 24 pages. Drg. 4 sheets.

Ind. Cl. : 39 L 171794

Int. Cl.[4] : H 01 B 1/16.

AN IMPROVED PROCESS FOR THE PREPARATION OF HIGH TEMPERATURE SUPERCONDUCTOR.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : IMTIAZ SIRAJUDDIN MULIA, AKHOURI PURNENDU BHUSHAN SINHA & MADHAVI RAJARAM CHANDRACHOOD.

Application for Patent No. 1159/Del/87 filed on 31st December, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

An improved process for the preparation of high temperature superconductor having the general composition $Y_a Ba_d Cu_c O$ where $a+b+c=1$ and $0.1<a<0.4$; $0.2<b<0.4$; $0.3<c<0.6$; $1.1<x<1.2$ which comprises mixing oxides of yttrium, barium and copper of their other compounds after converting to their corresponding oxides in any organic solvent having low bP. drying the resultant mixture under an Infra Red lamp to remove any traces of the organic solvent, moulding the dried mixture to the desired shape under a pressure of 10,000 to 20,000 lbs per square inch, electrically heating the product at a temperature in the rang of 850°—1000°C in an atmosphere such as herein described then maintaining at the said temperature for a period of 5-15 hours, and cooling the product gradually to a temperature of 450 ± 50°C in the furnace and taking it out at that temperature.

Compl. Sepcn. 15 pages. Drg. 4 sheets.

Ind. Cl. : 134 B LII (1). 171795

Int. Cl.[4] : F 16 H 55/00, F 16 H 57/00.

AUTOMATIC GEAR TRANSMISSION FOR A VEHICLE.

Applicant : PIAGGIO VEICOLI EUROPEI S.p.A., FORMERLY KNOWN AS PIAGGIO VEICOLI EUROPEI S.r.l., A COMPANY ORGANISED UNDER THE LAWS OF THE ITALIAN REPUBLIC, OF VIALE RINALDO PIAGGIO, 25-PONTEDERA (PISA), ITALY.

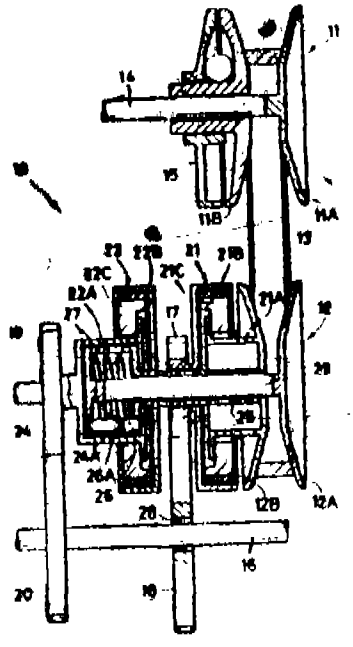
Inventor : MARCO NUTI.

Application for Patent No. 29/Del/88 filed on 14th January, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005

6 Claims

An automatic gear transmission for a vehicle comprising a first transmission unit with a transmission ratio which is variable with continuity, said first transmission unit (11, 12, 13) being connectable to a driving shaft (14) of the vehicle, characterised by, at least a second transmission unit (17, 18) and a third transmission unit (19, 20), each of said second and third transmission units (17, 18) (19, 20) having a fixed transmission ratio which differ from each other, a driven side of said second and third transmission units (17, 18) (19, 20) being connected to a drive side of said first transmission unit (11, 12, 13), a drive side of said second and third transmission units (17, 18) (19, 20) being connected to a driven shaft (16) of the vehicle to which motion is alternatively transmitted, the connection between said first transmission unit (11, 12, 13) and each of said second transmission unit (17, 18) and said third transmission unit (19, 20) being through first (21) and second (22) coupling means each being provided with a driving portion (21A, 22A) and a driven portion (21B, 22B), said driving (21A, 22A) and driven portions (21B, 22B) being automatically engageable and disengageable as a function of the speed of actuation of said driving portions, the speed of actuation of said first and second coupling means (21, 22) driving (21A, 22A) portions differing for the engagement of the second and third transmission units (17, 18) (19, 20), each of said second transmission unit and third transmission unit (17, 18) (19, 20) has at least a respective first and second pair of meshed gear wheels, a first gear wheel (17) of said first pair of meshed gear being rigidly connected to the driven portion of said first coupling means (21), a second gear wheel (18) of said first pair of meshed gear wheels being connected to said driven shaft (16), a first gear wheel (19) of said second pair of meshed gear wheels being rigidly connected to the driving portion (22A) of said second coupling means (22), and a second gear wheel (20) of said second pair of meshed gear wheels being rigidly connected to the driven shaft (16).



Compl. Sepcn. 16 pages. Drg. 2 sheets.

Ind. Cl. : 32 B IX (1) 171796

Int. Cl⁴. : F 28 B 3/00.

METHOD FOR SEPARATING A HYDROCARBON GAS MIXTURE AND RECOVERING A LIQUID STREAM OF CONDENSED HYDROCARBON COMPONENTS THEREFROM.

Applicant : THE M. W. KELLOGG COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF THREE GREENWAY PLAZA,HOUSTON, TEXAS 777046-0395, UNITED STATES OF AMERICA.

Inventors : DUFFER BOOKS CRAWFORD, THOMAS MICHAEL O'CONNOR, TARAKAD RAMASWAMI RAMANATHAN.

Application for Patent No. : 34/DEL/88 FILED ON 15TH JANUARY, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

(CLAIMS 11)

A method for separating a hydrocarbon gas mixture and recovering a liquid stream of condensed hydrocarbon components therefrom comprising the steps of:

(a) dividing the hydrocarbon gas mixture into two portions, a frist portion comprising between 70 and 95 mole percent of the hydrocarbon gas mixture and a second portion comprising the balance of the hydrocarbon gas mixcure;

(b) introducing the frist portion of the hydrocarbon gas mixture from step (a) into a first condensation zone and passing the first portion through the first condensation zone in indirect heat exchange with a first refrigerant to form a two phase mixture comprising a first light gas phase of noncondensed hydrocarbon components and a first condensate phase of condensed hydrocarbon components, wherein the first portion is passed through the first condensation zone at a velocity above the entrainment mass velocity of the first condensate phase of the two phase mixture;

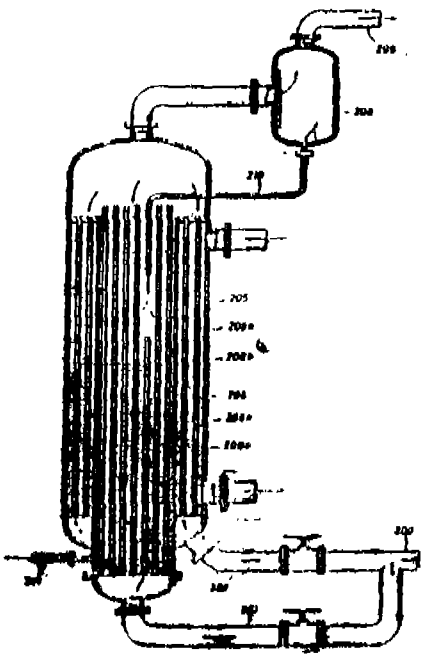
(c) recovering the two phase mixture from in step (b) and introducing the two phase mixture in to a first gas liquid separation zone where in the two phase mixture separates in to the first light gas phase and the first condensate phase;

(d) recovering the separated first condensate phase produced in step (c) and introducing the first condensate phase into a second condensation zone;

(e) introducing the second portion of the hydrocarbon gas mixture from step (a) into the second condensation zone and passing the second portion through the second condensation zone in heat exchange relation with the separated first condensate phase recovered in step (d) to form a second light gas phase of noncondensed hydrocarbon components and a second condensate phase of condensed hydrocarbon components;

(f) recovering the second light gas phase from the second condensation zone and introducing the second light gas phase into the first gas/liquid separation zone wherein the second light gas phase combines with the first light gas phase to form a second hydrocarbon gas mixture therein; and

(g) recovering the first and second condensate phases from the second condensation zone as a liquid stream of condensed hydrocarbon components, where in the method described above, a pressure is maintained throughout steps (a) through (g) of between 32 and 60kg/cm² a.



(Complete Specification 21 Pages Drawing Sheets 4).

Ind. Cl. : 206 E LX II. 171797

Int. Cl. : H 03 K 17/00.

DIGITAL DIFFERENTIATOR FOR DIFFERENTIATING THE INPUT SIGNALS.

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, DELHI AN INDIAN INSTITUTE, AND S. C. DUTTA ROY (SUHASH CHANDRA DUTTA ROY AND BALBIR KUMAR, BOTH INDIAN NATIONALS OF HAUZ KHAS, NEW DELHI-110 016, INDIA.

Inventors : ROY S. C. DUTTA, KUMAR BALBIR.

Application for Patent No. : 37/DEL/88 filed on 18th January, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

(CLAIMS 2)

A digital differentiator for differentiating input signals comprising a plurality of stages insisting of circuits, the output terminal of each stage connected to its respective contact of a controller (C) consisting a dial (D) having a plurality of contacts (C_1 to C_n) each said stage having a first circuit comprising a shift register (SR^1) and multiplier (1) and second circuit comprising a multiplier (P) and a shift register for the first stage and only a shift register for each subsequent stage, (A_s) the first circuit and the second circuit are connected to an adder circuit, the first circuit of the first stage processes the signal to a value of $\frac{1 \pm Z^{-2}}{2}$ the second circuit of the first stage processes said input signal to a value of Z^{-1}), the output of said first stage forming an input signal for the next succeeding stage, said adder circuit being for pro-

vided summation of said first and second circuits signals of each stage to provide an output signal.

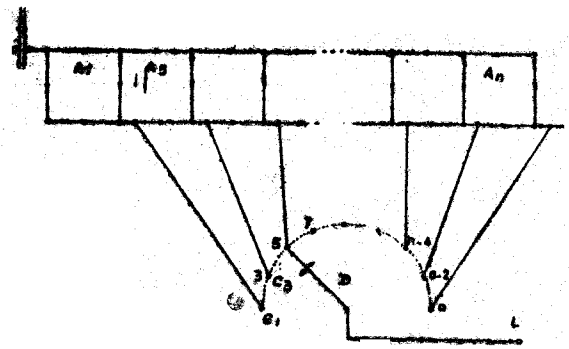


Fig. 1

(Complete Specification 9 Pages Drawing Sheets 2).

IND. CL. 24 E. 171798

Ind. Cl.* : B 60 T 11/00, 11/06

A DRUM BRAKE WITH AUTOMATIC ADJUSTMENT DEVICE.

Applicant : BENDIX FRANCE, OF 126, RUE DE STALINGRAD, 93700 DRANCY, FRANCE A FRENCH COMPANY.

Inventors : ERIC MICHOUX, MICHEL DENREE.

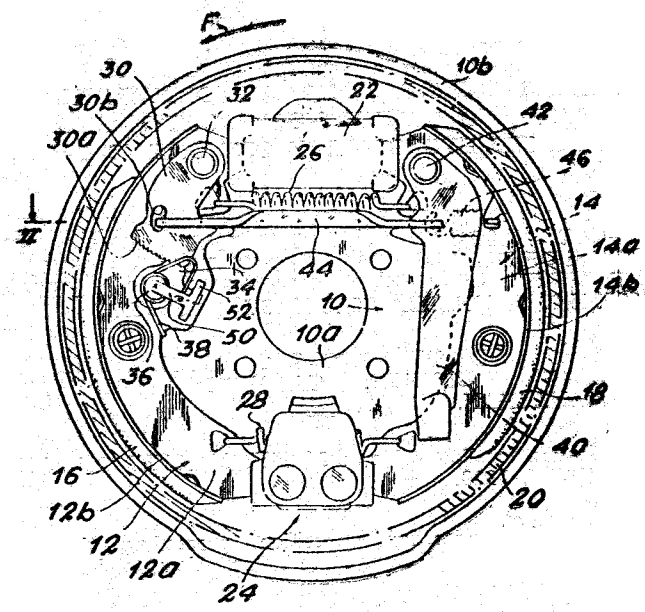
Application for Patent No. 38/DEL/88 filed on 18th January, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

(CLAIMS 4)

A drum brake with automatic adjustment device, comprising a support plate (10), two shoes (12, 14) are slidably mounted on the said support plate (10), said shoes (12, 14) having friction elements (16, 18) to bring into frictional engagement against a rotating drum (20) by means of a brake motor (22), an elastic means (26) is interposed between the ends of the cores of the said shoes (12, 14), between which the said brake motor (22) is located in the immediate vicinity of the said ends of the said shoes, an adjusting lever (30), one end of said lever is articulated on the said end of a first shoe (12), a spacer (44) interposed between the said shoes near the said brake motor, the said elastic means (26) stressing the said ends of the said shoes towards the said spacer, so as to bring up the adjusting lever against said spacer when the brake motor is not actuated in order to make a spacing distance at rest between the said ends of the said shoes, the other two ends of the said shoes (12, 14) are held up against the anchoring block (24) by means of another elastic element (28) interposed between the corresponding ends of the said shoes in the immediate vicinity of the said block, a pawl (34) mounted on the first shoe and stressed elastically against a toothed quadrant (30a) provided at the other end of the adjusting lever, so as to allow the matter to rotate only in a direction ending to increase this spacing distance at rest, the said spacer and the said adjusting lever intepracting with one another by means of a connection (48, 30b) making a functional play (j) when the brake motor is not actuated, the rotation of the adjusting lever in the said direction when the motor is actuated, is controlled by the said connection, characterised in that a blocking member (52) carried by a temperature-sensitive member (50) fastened to the first shoe at the first end immobilises the pawl (34) against the toothed quandrant (30a) when the temperature is higher than a given temperature threshold.

Fig. I



(Complete Specification 13 Pages Drawing Sheets Two)

Ind. Cl. : 32F (b) IX (1) 171799

Int. Cl. : C07 D 209/04

PROCESS FOR THE PREPARATION OF ANHYDROUS, CRYSTALLINE SODIUM SALT OF 5-CHOLORO-3-(2-THENOYL) 2-OXINDOLE-1-CARBOXAMIDE.

Applicant : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELWARE, UNITED STATES OF AMERICA OF 235 EAST 42ND STREET, NEW YORK.

Inventor : DOUGLAS JOHN MELDRUM ALLEN & BRIAN THOMAS O' NEILL.

Application for the Patent No. 67/DEL/88, Filed on 27th January, 1988.

Appropriate office for opposition procedings (Rule No. 4, Patents Rules 1972) Patent Office Branch New Delhi-5

(CLAIMS 2)

A process for the preparation of anhydrous, crystalline sodium salt of 5-Chloro-3-(2-thenoyl)-2-oxindole-1-1carbodamide which comprises stirring a corresponding hydrates form of the said salt with acetonitrile.

(Complete Specification-9 Pages Drawing-One Sheet)

Ind. Cl. : 40 B. 171800

Int.Cl* : B01J 27/135.

A PROCESS FOR PREPARING A SOLID MAGNESIUM TITANIUM AND HALID CONTAINING CATALYST COMPONENT FOR 1-ALKENE POLYMERIZATION.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDTLAAN 30. 2596 HR THE HAGUE, THE NETHERLANDS.

Inventors : JEAN LOUIS BILHOU & BRIAN LESLIE GOODALL.

Application for Patent No. 607/DEL/88 filed on 15 JUL 1988.

Divisional to Appln. No. 448/DEL/86 filed on 20 May 1986. Ante-dated to 20 May 1986.

Convention date 22 May 1985/8513000/(G.B.).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(CLAIMS 4)

A process for preparing a solid magnesium, titanium and halide containing catalyst component for 1-alkene polymerization which comprises :

(1) reaching $TiCl_4$ with a compound of the formula $Mg(OR)_n Cl_{2-n}$ in which R is an alkyl or aryl group in the presence of a halohydrocarbon of the kind such as herein described and n represents an integer from 0.3 to 3.0.

(2) separating in any known manner the solid catalyst product so obtained from the liquid phase.

(3) reacting the liquid phase which is contaminated with a compound of the formula Ti CL_3 OR with an organic acid halide of the formula R'—CO—CL^3 wherein R' is an aryl or alkyl group, to precipitate an addition complex of the formula $nTicl_4$. R'—CO—OR, wherein n is a number of from 0.3 to 3.0.

(4) separating in any known manner the contaminated solid addition complex from the liquid phase,

(5) slurrying the solid catalyst product of step (1) in the liquid phase obtained in step (4) at a temperature of at least 60^0 C during at least 0.5 hours, followed by

(6) separating in any known manner the required solid catalyst product from the liquid phase.

(Complete Specification 9 Pages).

Cl. 34 A,C,D. 171801.

Int. Cl. D 01 D 5/00; 5/24;D 01 F 1/08.

POLYESTER FIBREFILL, METHOD OF MAKING THE SAME AND FILLED FURNISHING OR APPAREL ARTICLE CONSISTING OF SUCH FIBRE.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY. OF WILMINGTON DELAWARE, UNITED STATES OF AMERICA.

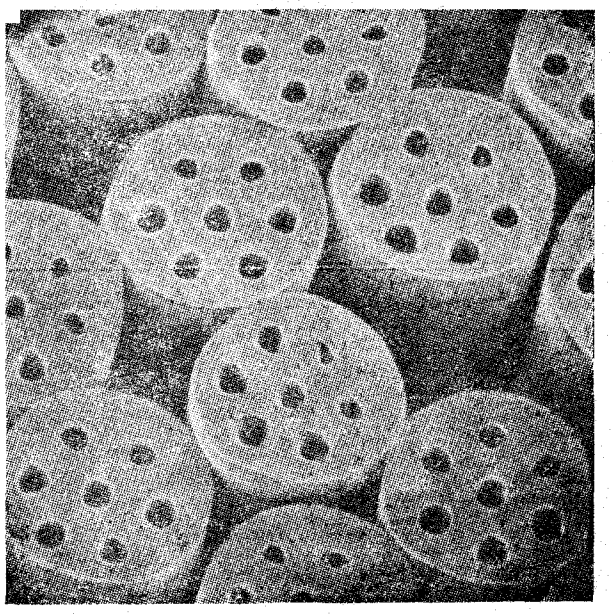
Inventors : CLARKE RUST BROADDUS.

Application No. 937/Cal/88; filed on November 10, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

9 Claims.

Polyester fiberfill of denier per filament about 5 to about 20, and of essentially round peripheral crosssection, with at lest 7 continuous voids of essentially circular cross-section along the length of the filaments, one such void being located essentially centrally, while the remaining voids are of essentially the same size as each other and are essentially equally spaced around the central void and from the central void and from the periphery of the filament.



Compl. Specn. 13 Pages. Drgns. 2 Sheet

Cl. 145 B,C,D, 171802

Int. Cl. D21F 1/00;3/00;13/12; D21j 1|00; 3|00;

APPARATUS FOR LAYING A MATT OF FIBROUS MATERIAL.

Applicant : COMPAK SYSTEMS LIMITED . OF TORR STREET, GAINSBOROUGH, LINCOLNHSIRE, DN21 2EG, ENGLAND.

Inventor : MICHAEL COSMO BARNES.

Application No. 1048/Cal/88; filed on 20th December, 1988;

(Convention No. 8729894; Dated 22nd December 1987; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

12 Claims.

Apparatus for laying a matt of fibrous material comprising an upwardly inclined belt on which the fibrous material is fed, one or more combing rollers located above the belt and a stripping roller at the upper end of the belt, which removes the fibrous material from the belt and passes it into means for laying a matt of the said material.

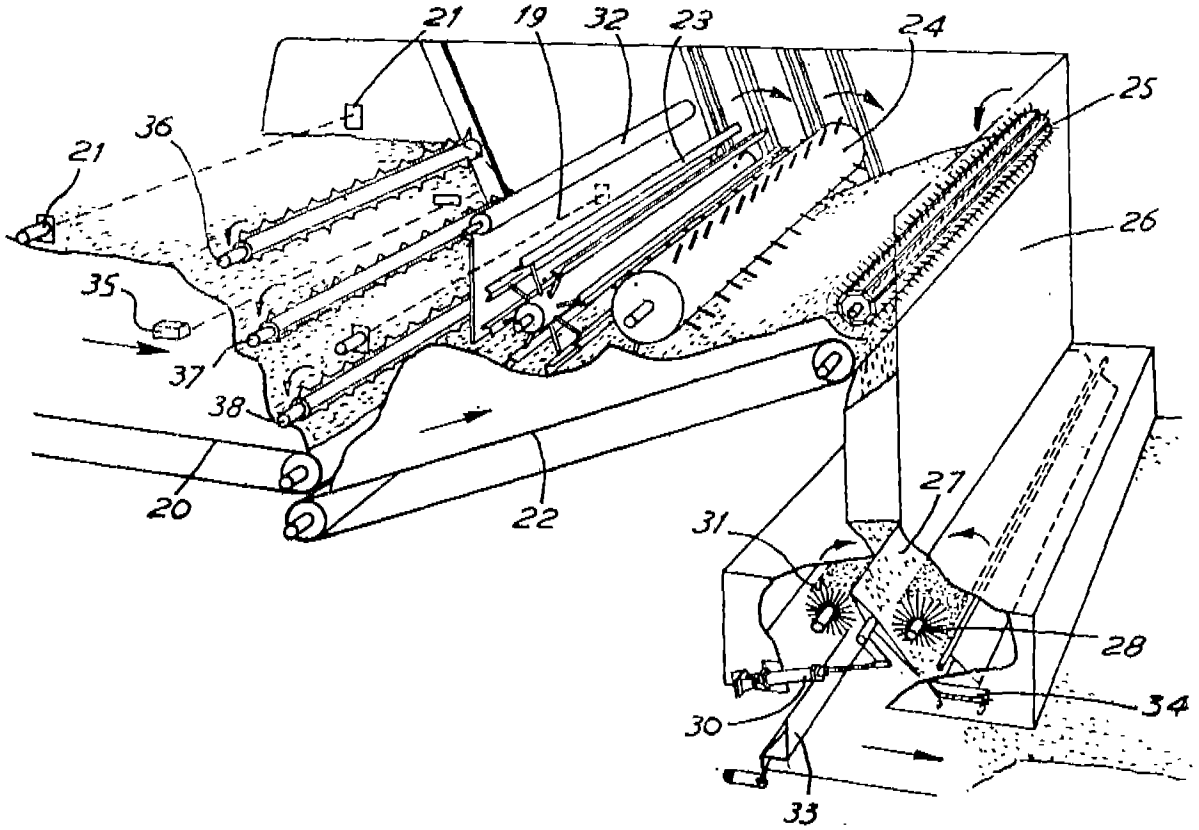


Fig. 2

Compl. Specn. 8 Pages. Drgns. 2 Sheets.

Cl. 34 A; 172 D4. 171803.

Int. Cl. D01D 1/00; 4/00; 4/02; 5|00; 5|24;

SPINNERET FOR THE PRODUCTION OF FILAMENTS OF ESSENTIALLY ROUND CROSS-SECTION.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY. OF WILMINGTON DELAWARE; UNITED STATES OF AMERICA.

Inventor : CLARKE RUST BROADDUS.

Application No. 42/Cal/89; filed on 16th January; 1989.

Appropriate office for opposition Proceedings (Rule 4, Patent rule 1972), Patent Office, Calcutta.

3 claims.

A spinneret for the production of filaments of essentially round cross-section with at least seven continuous voids along the filaments, one void being centrally located, said spinneret comprising : a plate having upper and lower surfaces connected by a capillary, said capillary being defined at said lower surface by and plurality of segments equispaced a distance from and equispaced angularly about the center of the capillary, each of said segments being defined by an inner arcuate slot, connected to an outer arcuate slot by another slot.

Compl. Specn. 5 pages. Drgns. 1 sheet.

Cl. 40B. 171804

Int. Cl. B 01 j 23/48;

"A PROCESS FOR PREPARING A SILVER-CONTAINING CATALYST FOR THE PRODUCTION OF ETHYLENE OXIDE".

Applicant : CHINA PETROCHEMICAL CORPORATION OF 24 XIAOGUAN STREET, ANWAI, BEIJING P. R. CHINA. AND RESEARCH INSTITUTE OF BEIJING YANSHAN PETROCHEMICAL CORPORATION OF 9 FONGHUANGTING ROAD, YANSHAN DISTRICT, BEIJING, P. R. CHINA.

Inventors : JIN JIQUAN (1) JIN GUOQUAN, (3) XU YONG, (4) SHANG LIANDI.

Application No. 98/Cal/89; filed on 31st January, 1989;

Appropriate office for opposition Proceedings (Rule 4, Patent rule 1972), Patent Office, Calcutta.

13 Claims.

A process for preparing a silver-containing catalyst for the production of ethylene oxide via-ethylene oxidation, comprising,

preparing a mixture of commercial trihydrates α-alumina, boehmite alumina, carbonaceous material, a fluxing agent, a fluoride, a binder and water, wherein said trihdrate α-alumina and boehmite alumina are mixed in proportions of from 1:1 to 9:1 based upon the weight of alumina, the carbonaceous material is present in an amount of from 20 to 30 per cent of alumina by weight, the fluxing agent is present in an amount of from 1 to 7 percent of alumina by weight, the fluoride is present in an amount of from 0.5 to 5 percent of the weight of alumina calculated on fluoride anions and the binder is present in an amout of from 25 to 60 percent of alumina by weight, extruding the mixture to form a shaped body;

drying and calcining the shaped body at temperatures around 1500°C to convert it into an alumina corrier having the following pore structure :

Specific surface area—0.2-2m²-/g

Pore Volume—0.5>ml/g

Pore radius—10-25% of the total volume being greater than 30μ

impregnating the alumina carrier with a solution of a silver compound (i) such as silver okalate, and (ii) a solution of an alkali or alkaline earth metal compound as herein described, as promoters added before or during or after the impregnation of said solution of silver compound or after reduction of said silver compound; and

reducting and activating said silver impregnated carrier in a conventional manner.

Compl. 17 pages. Drgns. Nil.

Cl. 32E. 171805.

Int. Cl. C08F 114/06; V08L 91/00; C08K 5/49.

"PROCESS FOR THE MANUFACTURE OF A NOVEL COMPOSITION HAVING FIRE-RESISTANT AND INSULATING PROPERTIES".

Applicant & Inventor : BIPLOV KUMAR CHOWDHURI OF 33 CHETLA ROAD, ALIPORE, CALCUTTA-700027, WEST BENGAL, INDIA.

Application No. 124/Cal/89 filed on 13th February, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent rule 1972), Patent Office, Calcutta.

12 Claims.

A process for the manufacture of a novel composition having fire-resistant and insulating properties which comprises -

(i) mixing of vinyl polymers such as herein described with stabilizers selected from the group of cadmium or barium stearates and tribasic lead sulphate in proportions such as herein described and heating the same to a temperature of about 30°C;

(ii) adding the mixture from (i) to a mixture of phosphate plasticizers, epoxidised oil and extender(s), in proportions such as herein described, and the whole mass is allowed to stand for about 10' mixtures;

(iii) presoaking the mixture from (ii) in an organic ketonic solvent having at least one carbonyl group such as herein described for about an hour;

(iv) mechanically stirring the soaked mass obtained from (iii) so as to disintegrate the lumps;

(v) diluting the mass obtained in step (iv) with a solvent compatible therewith to achieve desired degree of dilution, and

(vi) filtering the mass to remove undesired foreign matters after stirring and settling for a predetermined period of time such as herein described.

Compl. Specn. 18 Pages. Drgns. 2 sheets

Cl. : 63 A_2 171806

Int. Cl. : H02K 17/00.

"A REVERSIBLE PERMANENT SPLIT CAPACITY MOTOR".

Applicant : EMERSON ELECTRIC CO. OF 8100 W. FLORISSANT. ST. LOUIS, MISSOURI 633136, U.S.A.

Inventor : ALAN ROBERT BARKER.

Application No. 178/Cal/1989 filed on 2nd March, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent rule 1972), Patent Office, Calcutta.

9 Claims.

A reversible permanent split capacitor motor comprising :

a stator assembly including acore having a generally parallogram silhouette, said core being constructed from a plurality of stator laminations, each of said laminations having said silhouette, said core having a central opening defining a rotor receiving bore therein, and a plurality of radially extending receptacles opening onto said bore and defining winding receiving slots, said slots defining a plurality of teeth the radial inner extension of which defines said bore, and windings in said slots, said windings including at least a first winding and a second winding, said windings being electrically connectable so that said first winding delimits a main motor winding in a first direction of rotation and an auxiliary motor winding in a second direction of rotation, while said second winding delimits an auxiliary motor winding in said first direction of rotation and a main motor. Winding in said second direction of rotation, each winding being placed in said stator so that the maximum flux density at any point in said core is approximately equal in either direction of rotation of said motor;

rotor mounted for rotation in said bore; and support means for said rotor operatively connected to said rotor and said stator.

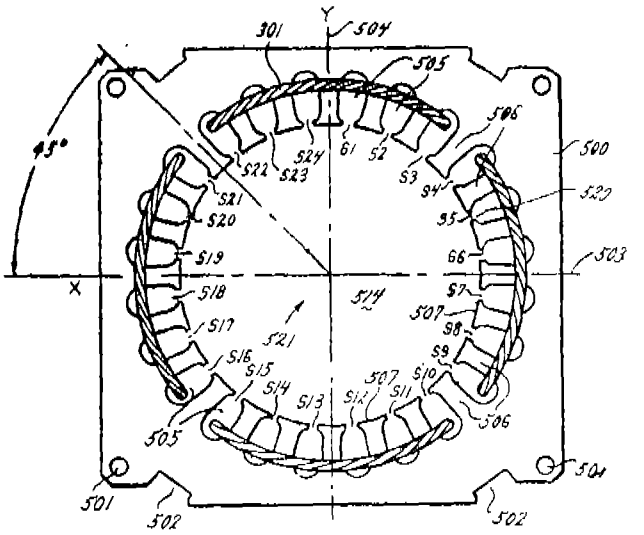


Fig. 5a

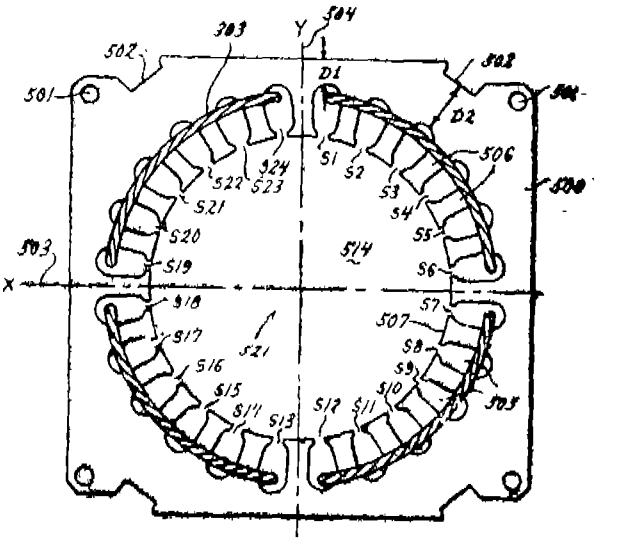


Fig. 5b

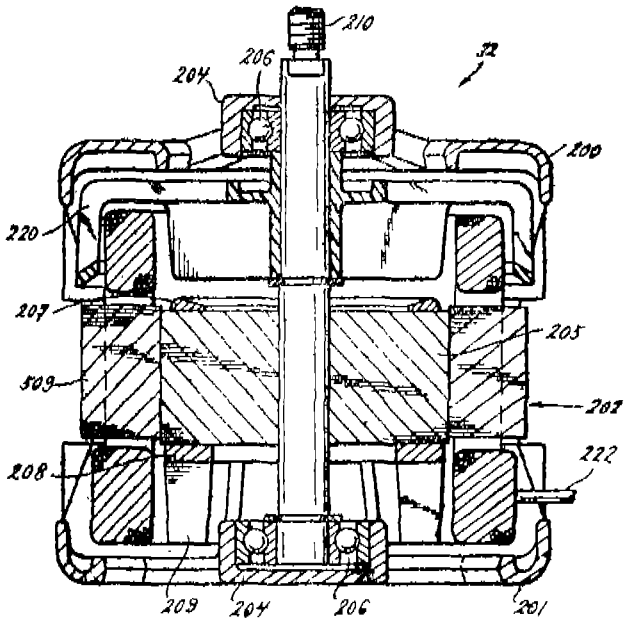


Fig. 13

Compl. Specn. 23 Pages. Drgns. 10 sheets.

Cl. : 55 $B_8 + B_2$ 171807

Int. Cl.[4] : A61L 2/20.

"A METHOD OF OBTAINING STERILIZED ARTICLES BY GAS STERILIZATION WITHIN A CHAMBER".

Applicant : MDT CORPORATION, OF TORRANCE TECHNOLOGY CENTER, 2300 205TH STREET, TORRANCE, CALIFORNIA 90501, U.S.A.

Inventor : KENNETH ALAN JOHNSON.

Application No. 353/Cal/1989 filed on 9th May, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Officer Calcutta.

19 Claims.

An improved method of obtaining sterilized articles by gas sterilization within a chamber defined by opposing endwalls connected by sidewalls, one said endwall comprising a sealable entry into the interior of said chamber, evacuating said chamber to remove air, introducing sterilant gas into said evacuated and compressing said sterilant gas to effect a predetermined exposure pressure within said chamber, and exposing said load to said sterilant gas within said chamber for an exposure period to said presclected exposure pressure while establishing and maintaining a temperature in said chamber within a preselected range by applying heat as needed through said sidewalls while permitting heat to escape through said endwalls, the improvement which comprises extracting heat through sidewalls during the period in which said gas is being compressed in said chamber, thereby to reduce the time interval during which the load is exposed to temperature in excess of said preselected range by reason of the heat of compression sterilant gas.

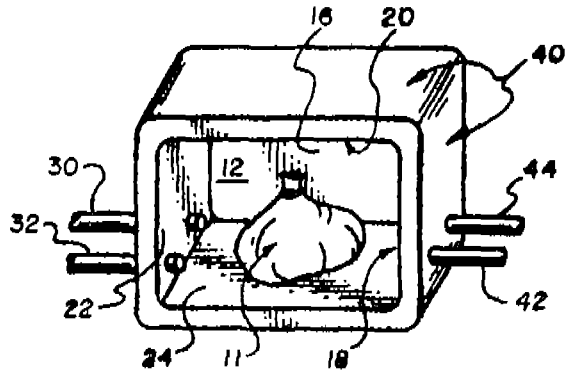


Fig. 1

Compl. specn. 13 pages. Drgns. 1 sheet.

Cl. : 187 E 171808

Int. Cl. : H 04 R 17/00, 19/00.

"STANDARD ELECTROACOUSTIC TRANSDUCER".

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-80000, MUNCHEN 2, WEST GERMANY.

Inventors : (1) DR. TOMAS ANNDERT, (2) STEFAN PIEPER.

Application No. : 378/Cal/1989 filed on 16th May, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

5 Claims

Standard electroacoustic transducer for communication terminals for optional use as microphone, loudspeaker or tone caller, having a transducer plate which is clamped in between mearing bodies in the edge region, is provided with a piezoelectric layer, and is arranged in a two-part housing having sound transmission openings and having resonators in front of and behind the transducer plate, characterized in that a resonator (R11) is formed by a volume arranged on one side of the transducer plate (27), which volume is coupled to the external volume by means of sound transmission openings (35), in that a further resonator (R12) is formed by a volume arranged on the other side of the transducer plate (27), which volume is acoustically connected to the first-mentioned resonator, in that this further resonator (R12) has a neck (34) which is closed off by a cover (33), in that this further resonator (R12) is moreover connected to a last resonator (R13) that is connected via coupling openings (31, 32), in that this arrangement forms a transducer for uses a microphone or as a loudspeaker, and in that the cover (33) of the neck (34) can be removed when the transducer is used as a tone caller.

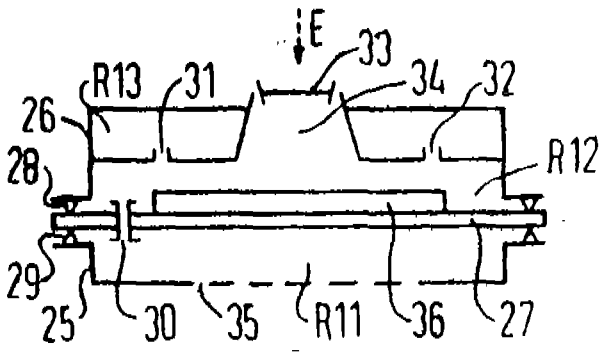


Fig. 5

Compl. specn. 8 pages. Drg. 1 sheet

Cl. : 157 A_1, A_2 171809

Int. Cl. : E 01 B 26/00, 7/00.

"A TRAVELLING TRACK TAMPING, LIFTING AND LINING MACHINE".

Applicant : FRANZ PLASSER BAHNBAUMASCHINEN-INDUSTRIEGESSE - LISCHAFT M.B.H., A-1010 WIEN, JOHANNESGASSE 3, AUSTRIA.

Inventor : ING. JOSEF THEURER.

Application No. : 635/Cal/1989 filed on 4th August, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office, Calcutta.

8 Claims

A travelling track tamping, lifting and lining machine comprising a lifting and lining unit for lifting and/or laterally shifting a track at switches and crossings which comprises a tool frame designed to travel along the track on at least one pair of flanged wheels and being connected to the machine frame for vertical and lateral adjustment under the power of hydraulic lifting and lining drives, at least one flanged wheel serving as a lining element and at least one gripping element in the form of a gripping hook and/or dripping roller designed for transverse and vertical displacement by a drive and for force licking application to the outside or inside of the rail being arranged per rail on the tool frame, characterized in that a measuring car (18) designed to travel on the adjacent track (19) is associated with the track tamping, levelling and lining machine (1) which is equipped with a levelling and lining reference system and with a measuring sensor axle designed to travel on the track for measuring the actual position of the track and of which the machine frame (2) is connected to an auxiliary lifting assembly (20) designed for displacement transversely of the longitudinal axis of the machine and for vertical displacement under the power of drives (37, 39) for lifting the adjacent track (19) or switch or crossing section and, for measurably recording the position of the adjacent track section, comprises a measuring beam (24) extending transversely of the longitudinal axis of the machine and associated with the tamping machine and also a cross level indicator (25).

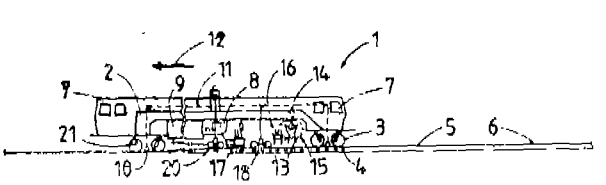


Fig. 1

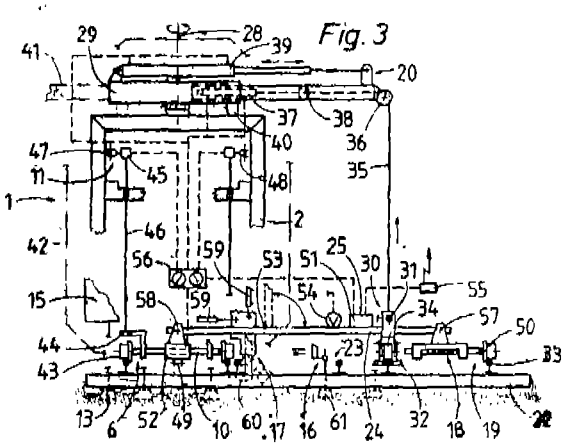


Fig. 3

Compl. speen. 23 pages. Drg. 1 sheet.

Cl. : 127 G 171810

Int. Cl. : F 16 H 3/00.

"COMBINED RANGE AND SPLITTER TYPE COMPOUND CHANGE GEAR TRANSMISSION SYSTEMS".

Applicant : EATON CORPORATION, AT 1111 SUPERIOR AVE. CLEVELAND, OHIO 44114, UNITED STATES OF AMERICA.

Inventors : (1) JOHN ROLAND VANDERVOORT, (2) ALAN RICHARD DAVIS.

Application No. : 6/Cal/1991 filed on 1st January, 1991.

Divided out of No. 145/Cal/88. Ante dated to 17 Feb. 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972), Patent Office, Calcutta.

5 Claims

A combined range and splitter type compound change gear transmission system (300) comprising a main transmission section (12A) connected in series with an auxiliary transmission section (302) said auxiliary transmission section comprising a housing (H) an auxiliary section input shaft (28A) extending into said housing and driven by said main transmission section and on output shaft (322) extending from said housing, said auxiliary transmission section further comprising :

a splitter gear (118), a splitter/range gear (120) and a range gear (224) all generally coaxial with and rotatable relative to said auxiliary section input shaft and said output shaft;

an auxiliary section countershaft assembly (304, 304A) comprising auxiliary section countershaft (306) rotationally supported in said housing, a first (112) auxiliary countershaft and gear fixed to said auxiliary countershaft and constantly meshed with said splitter gear, a second (114) auxiliary countershaft and constantly meshed with said splitter/range gear and a third (216) auxiliary countershaft gear rotationally fixed to said auxiliary countershaft and constantly meshed with said range gear;

a splitter clutch assembly (126) fixed for rotation with said auxiliary section input shaft and having a first (LO) position for coupling said splitter gear to said auxiliary section input shaft and a second (HI) position for coupling said splitter/range gear to said auxiliary section input shaft;

a two-position synchronized range clutch assembly (328) fixed for rotation with said output shaft and having a first (HI) position for coupling said splitter/range gear to said output shaft and a second (LO) position for coupling said range/gear to said output shaft; and,

control means (390, 396) for independently positioning each of said splitter clutch assembly and range clutch assembly in a selected one of the two positions thereof, said transmission characterized by;

said control means allowing positioning and maintaining of said splitter clutch in a third (N) position thereof for drivingly disconnecting said splitter clutch in a third (N) position thereof for drivingly disconnecting said splitter gear and said splitter/range gear from said auxiliary section input shaft.

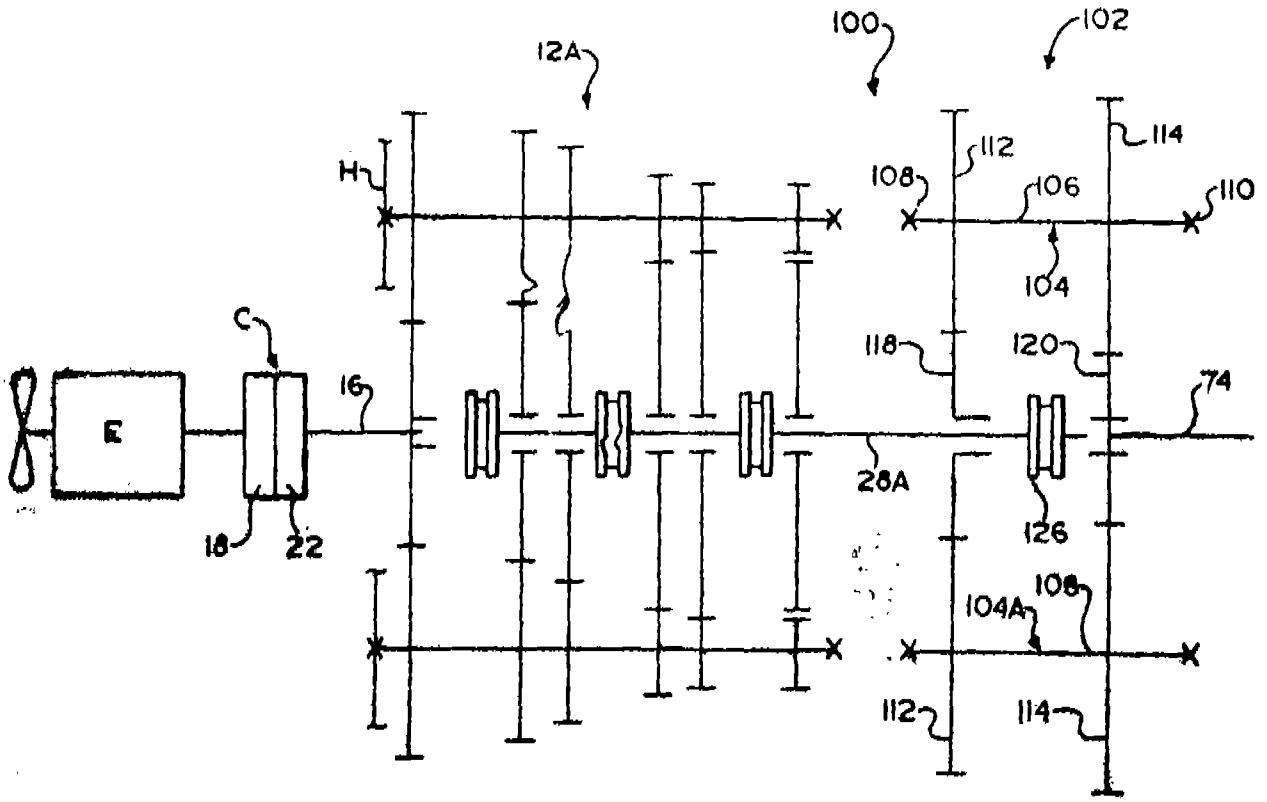


Fig. 2

Compl. specn. 37 pages. Drgs. 12 sheets.

REFUSAL OF PATENTS U/S 15

Application for Patent No. 319/Del/85 filed on 17-4-85 by M/s. De La Rue Giori S. A. has been refused U/S 15 of the Patents Act, 1970 vide order dated 11-11-92 of the Joint Controller of Patents & Designs.

PATENTS SEALED ON 9-12-92

168991* 169472 169577 169595* 169598* 169610 169744 169855.

Cal—5
Del—2
Mas—1
Bom—NIL.

Patent shall be deemed to be endorsed with the words 'LICENCE OF RIGHT' under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

RENEWALS FEES PAID

155845 161471 161911 162850 165576 1665590 166365 168120 168267 168923 168940 169837.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of the registration of the design included in the entry.

NIL

R. A. ACHARYA,
Controller General of Patents
Designs and Trade Marks

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एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1993
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD,
AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1993